

**Flood Control Project Maintenance  
Levee Inspections**

**Fall 2016 Levee Maintenance Deficiency Summary Report**

**Overall LMA & Unit Ratings, including USACE Erosion Survey**

**Sacramento River Basin**

| <b>NA0018</b>  | Overall LMA Rating     | Total LMA Miles |              |             |             |         |                              |         |
|--|------------------------|-----------------|--------------|-------------|-------------|---------|------------------------------|---------|
| <b>California Department of Fish and Game Shea Levee</b> | <b>U</b>               | <b>0.30</b>     |              |             |             |         |                              |         |
| Rated Item   | Maintenance Deficiency |                 |              |             | Enforcement |         | Design & System Obsolescence |         |
|  | M Miles                | U Miles         | M + 4U Miles | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |
| <i>Earthen Levee</i>                                     |                        |                 |              |             |             |         |                              |         |
| Vegetation   | 0.27                   |                 | 0.27         | 89.87%      |             |         |                              |         |
| Trim / Thin Trees  | 0.05                   |                 | 0.05         | 16.64%      |             |         |                              |         |
| Emergency Supplies & Equipment                           | 0.01                   |                 | 0.01         | 3.33%       |             |         |                              |         |
| Flood Preparedness & Training                            | 0.01                   |                 | 0.01         | 3.33%       |             |         |                              |         |
| <i>LMA Totals:</i>                                       | 0.34                   | 0.00            | 0.34         | 113.18%     | 0.00        | 0.00    | 0.00                         | 0.00    |

  

| <b>Unit No. 01 Sacramento River LB</b> | Overall Unit Rating    | Total Unit Miles |              |             |             |         |                              |         |
|--|------------------------|------------------|--------------|-------------|-------------|---------|------------------------------|---------|
| <b>NA0018</b>                          | <b>U</b>               | <b>0.30</b>      |              |             |             |         |                              |         |
| Rated Item                             | Maintenance Deficiency |                  |              |             | Enforcement |         | Design & System Obsolescence |         |
|  | M Miles                | U Miles          | M + 4U Miles | Threshold % | M Miles     | U Miles | M Miles                      | U Miles |
| <i>Earthen Levee</i>                   |                        |                  |              |             |             |         |                              |         |
| Vegetation                             | 0.27                   |                  | 0.27         | 89.87%      |             |         |                              |         |
| Trim / Thin Trees                      | 0.05                   |                  | 0.05         | 16.64%      |             |         |                              |         |
| <i>Unit Totals:</i>                    | 0.32                   | 0.00             | 0.32         | 106.52%     | 0.00        | 0.00    | 0.00                         | 0.00    |

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Fall 2016 Levee Inspection Results**

**California Department of Fish and Game Shea Levee**

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|                                  | Spring<br>(March - May) | Summer **<br>(June - August) | Fall<br>(September - November) | Winter **<br>(December - February) |
|----------------------------------|-------------------------|------------------------------|--------------------------------|------------------------------------|
| † Overall LMA Rating (Fall Only) |                         |                              | U                              |                                    |

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

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**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Fall 2016 Levee Inspection Results**

**California Department of Fish and Game Shea Levee**

| Waterway                               |   |                           | Bank   | Unit Miles                      |
|--|---|---------------------------|--|---------------------------------|
| Unit No. 01 Sacramento River           |   |                           | Left   | 0.30                            |
|  | Spring<br>(March - May)                       | Summer<br>(June - August) | (September - November)<br>Fall                   | Winter<br>(December - February) |
| Unit Maintenance Rating<br>(Fall Only) |   |                           | <b>U</b>   |                                 |
| Date of Inspection                     | 4/27/2016 - 4/27/2016                         |                           | 10/21/2016 - 10/21/2016                          |                                 |
| DWR Inspector                          | Keith Millard                                 |                           | Tariq Chechi                                     |                                 |
| Accompanied By                         | Michael Harris<br>Department of Fish and Game |                           | Monty Currier<br>Department of Fish and Wildlife |                                 |

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**California Department of Fish and Game Shea Levee**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 0.30       | 10/21/2016<br>10/21/2016 | Tariq<br>Chechi |

|                              |                                  |              |                        |            |     |
|------------------------------|----------------------------------|--------------|------------------------|------------|-----|
| LM Start                     |                                  | Rating **    | A                      | Issue No.  | 7   |
| LM End                       |                                  | Issue Type + | Ma                     | Location * | N/A |
| Category                     | Earthen Levee                    |              | GPS Latitude/Longitude |            |     |
|                              |                                  |              | Start                  |            | End |
| Item                         | Operations & Maintenance Manuals |              |                        | °          |     |
|                              |                                  |              |                        | °          |     |
| DWR ID                       | DWR_NA0018_01_s_2013_7           |              |                        |            |     |
| Comment Code                 |                                  |              |                        |            |     |
|                              |                                  |              |                        |            |     |
| Inspector Comment            |                                  |              |                        |            |     |
| The LMA has the O&M manuals. |                                  |              |                        |            |     |

No Photos

|   |                               |              |                        |            |     |
|---|-------------------------------|--------------|------------------------|------------|-----|
| LM Start  |                               | Rating **    | M                      | Issue No.  | 8   |
| LM End  |                               | Issue Type + | Ma                     | Location * | N/A |
| Category  | Earthen Levee                 |              | GPS Latitude/Longitude |            |     |
|   |                               |              | Start                  |            | End |
| Item  | Flood Preparedness & Training |              |                        | °          |     |
|   |                               |              |                        | °          |     |
| DWR ID  | DWR_NA0018_01_s_2012_8        |              |                        |            |     |
| Comment Code  |                               |              |                        |            |     |
|   |                               |              |                        |            |     |
| Inspector Comment   |                               |              |                        |            |     |
| The LMA has not completed any training and does not have an available flood plan. |                               |              |                        |            |     |

No Photos

|  |                                |              |                        |            |     |
|--|--------------------------------|--------------|------------------------|------------|-----|
| LM Start   |                                | Rating **    | M                      | Issue No.  | 10  |
| LM End   |                                | Issue Type + | Ma                     | Location * | N/A |
| Category   | Earthen Levee                  |              | GPS Latitude/Longitude |            |     |
|  |                                |              | Start                  |            | End |
| Item   | Emergency Supplies & Equipment |              |                        | °          |     |
|  |                                |              |                        | °          |     |
| DWR ID   | DWR_NA0018_01_s_2013_10        |              |                        |            |     |
| Comment Code   |                                |              |                        |            |     |
|  |                                |              |                        |            |     |
| Inspector Comment  |                                |              |                        |            |     |
| The LMA does not maintain an adequate supply for flood fighting. |                                |              |                        |            |     |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

## Levee Inspection Report By Mile - Fall 2016

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 0.30       | 10/21/2016<br>10/21/2016 | Tariq<br>Chechi |

|          |             |              |    |            |                 |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | <b>0.00</b> | Rating **    | M  | Issue No.  | <b>2 (cont)</b> |
| LM End   | <b>0.07</b> | Issue Type + | Ma | Location * | LS              |

A photograph showing a dirt road or path that curves through a grassy field. On the left side of the path, there is a dense line of green trees and shrubs. In the background, a body of water is visible under a blue sky with scattered white clouds. A date stamp '04/06/2015' is located in the bottom right corner of the image.

A photograph showing a gravel path or driveway leading from the foreground towards a dense line of trees in the background. The path is bordered on the left by a field of tall, dry, yellowish-brown grass. To the left of the grassy field, there is a body of water, possibly a pond or a slow-moving stream, which reflects the surrounding trees and sky. The sky is a clear, bright blue. In the bottom right corner of the image, there is a date stamp that reads "09/25/2016".

A photograph of a river or lake with a grassy bank in the foreground and a dense line of trees on the opposite shore. The date '10/21/2016' is printed in orange in the bottom right corner.

| * Location  | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Fall 2016**

**California Department of Fish and Game Shea Levee**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector       |
|------------------------------|------|------------|--------------------------|-----------------|
| Unit No. 01 Sacramento River | Left | 0.30       | 10/21/2016<br>10/21/2016 | Tariq<br>Chechi |

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.21                   | Rating **    | M  | Issue No.              | 4             |
| LM End  | 0.26                   | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Trim / Thin Trees      |              |    | 40.511518 °            | 40.508234 °   |
|   |                        |              |    | -122.360100 °          | -122.363430 ° |
| DWR ID  | DWR_NA0018_01_s_2012_4 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| T3 : Trim and thin trees to allow visibility of the ground and room to flood fight. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
|   |                        |              |    |                        |               |

Photo 1 of 2 : FA\_2016\_NA0018\_269\_4\_20160823\_00006.jpg



Trim the trees along the waterside slope.

|          |             |              |    |            |                 |
|----------|-------------|--------------|----|------------|-----------------|
| LM Start | <b>0.21</b> | Rating **    | M  | Issue No.  | <b>4 (cont)</b> |
| LM End   | <b>0.26</b> | Issue Type + | Ma | Location * | WS              |

Photo 2 of 2 : FA\_2016\_NA0018\_269\_4\_20160823\_00007.jpg



Trim the trees along the waterside slope.

|   |                        |              |    |                        |              |
|---|------------------------|--------------|----|------------------------|--------------|
| LM Start  | 0.22                   | Rating **    | C  | Issue No.              | 6            |
| LM End  | 0.30                   | Issue Type + | Ma | Location *             | LS           |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |              |
|   |                        |              |    | Start                  | End          |
| Item  | Animal Control         |              |    | 40.510671 °            | 40.511185 °  |
|   |                        |              |    | 122.360944 °           | 122.360553 ° |
| DWR ID  | DWR_NA0018_01_s_2013_6 |              |    |                        |              |
| Comment Code  |                        |              |    |                        |              |
| A2 : Repair the levee slope damaged by livestock and prevent large animal access. |                        |              |    |                        |              |
| Inspector Comment   |                        |              |    |                        |              |
| The livestock damaged the L/S slope.  |                        |              |    |                        |              |

No Photos

|  |  |  |   |
|--|--|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>N : Not Inspected/Rated</b><br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|--|---|